Amendments to the Claims

The following listing of claims replaces all prior versions and listings of claims in the present application:

1. (Currently Amended) A wind power generation device comprising:

a substantially cylindrical duct;

an impeller having a plurality of blades protruding outward, said impeller being ~~[and]~~ rotatable around a duct axis; and

a nacelle that constitutes a streamlined pencil body together with said ~~[the]~~ impeller and houses a generator that uses torque of said ~~[the]~~ impeller,

wherein said ~~[characterized in that a]~~ duct has a side wall with a wing-shaped cross section, said side wall having no holes therein, ~~[wing section]~~ so as to be able to produce a reduced pressure area at a rear of said ~~[the]~~ duct and prevent generation of swirl at the rear of said ~~[the]~~ duct,

wherein said ~~[the]~~ pencil body is provided such ~~[so]~~ that a ~~[tip]~~ forward end thereof is ~~[placed in the]~~ disposed inside of said duct and a rear end thereof protrudes outwardly from a rear end of said ~~[the]~~ duct, so as to be close to a tip of the reduced pressure area produced at the rear of said ~~[the]~~ duct, and

wherein blades of said ~~[the]~~ impeller are provided in a maximum wind speed area in said ~~[the]~~ duct.

2. (Currently Amended) The wind power generation device according to claim 1, ~~[characterized in that]~~ wherein a chord of ~~[the wing section]~~ said wing-shaped cross section of said ~~[the]~~ side wall of said ~~[the]~~ duct is inclined at a predetermined angle to the duct axis, and wherein a protruding length of the rear end of said ~~[the]~~ pencil body from the rear of said ~~[the]~~ duct is adjusted according to a position of the tip of said ~~[the]~~ reduced pressure area, which ~~[that]~~ changes depending on said ~~[the]~~ predetermined angle.

3. (Currently Amended) The wind power generation device according to claim 2, ~~[characterized in that the]~~ wherein said predetermined angle is 2° to 12°, and the protruding length of said ~~[the]~~ pencil body from the rear of said ~~[the]~~ duct is ~~[set to]~~ 0.1 to 0.4 times ~~[the duct]~~ a length of said duct.

4. (Currently Amended) The wind power generation device according to claim 1, ~~[characterized in that the]~~ wherein said blades of said ~~[the]~~ impeller are provided within a range of 0.07 times ~~[the duct]~~ a length of said duct in a forward direction, and 0.18 times the ~~[duct]~~ length of said duct in a rearward direction, with respect to a minimum inner diameter portion of said ~~[the]~~ duct.

5. (Currently Amended) The wind power generation device according to claim 2, ~~[characterized in that the]~~ wherein said blades of said ~~[the]~~ impeller are provided within a range of 0.07

times ~~[the duct]~~ a length of said duct in a forward direction, and 0.18 times the ~~[duct]~~ length of said duct in a rearward direction, with respect to a minimum inner diameter portion of said ~~[the]~~ duct.

6. (Currently Amended) The wind power generation device according to claim 3, ~~[characterized in that the]~~ wherein said blades of said ~~[the]~~ impeller are provided within a range of 0.07 times the ~~[duct]~~ length of said duct in a forward direction, and 0.18 times the ~~[duct]~~ length of said duct in a rearward direction, with respect to a minimum inner diameter portion of said ~~[the]~~ duct.

7. (New) The wind power generation device according to claim 2, wherein said predetermined angle is inclined at a positive angle such that a leading edge of said chord at the front end of said duct is separated a greater distance from said duct axis than a trailing edge of said chord at the rear end of said duct.